

What is claimed is:

1. An optical device, comprising:
an optical element;
5 a fixing means for fixing the optical element;
a lens focusing a plurality of segments of light
transmitted from the optical element;
a cabinet provided with light input/output holes,
that accommodates the optical element, the fixing means
10 and the lens;
a heater heating the cabinet;
a first blocking means made of a light
transmitting material, for blocking the first light
input/output hole; and
15 a second blocking means made of a light
transmitting material, for blocking the second light
input/output hole.
2. The optical device according to claim 1, wherein
20 either said first or second blocking means is said lens.
3. The optical device according to claim 1, wherein
either said first or second blocking means is said
fixing means.

4. The optical device according to claim 1, wherein said fixing means is applied to the front or rear surface of the optical element and light can transmit into said optical element.

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5. The optical device according to claim 4, wherein said fixing means is provided with an anti-reflection film for an area into and out of which light transmits.

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6. The optical device according to claim 1, wherein said optical element is a virtually imaged phased array optical element.

15 7. The optical device according to claim 1, wherein said fixing means has almost the same thermal expandability as the optical element.

8. The optical device according to claim 7, wherein
20 the thermal conductivity of said fixing means is almost the same as the air.

9. The optical device according to claim 1, further comprising
25 a mirror reflecting the spectral components of

light that are separated by said optical element.

10. The optical device according to claim 1, wherein
said fixing means is either transparent glass or
5 a semi-conductor that is transparent in the infrared
ray range.